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From: B. W. Mortenson, Monitoring Unit, H&S Div
Subject: IMMEDIATE MONITORING OF THE AIRBORNE ACTIVITY OF THE SNAPTRAN-II DESTRUCTIVE TEST

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| 6. Name and telephone number of person completing form: | 7. Organization: | 8. Date: |
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HUMAN RADIATION EXPERIMENTS

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ITEMS OF INTEREST:

D. F. Bunch
Technical Section

May 3, 1966

B. W. Mortensen
Monitoring Unit

IMMEDIATE MONITORING OF THE AIRBORNE ACTIVITY OF THE SNAPTRAN-II DESTRUCTIVE TEST

HSHP:BWM

The immediate measurements of the airborne activity from the SNAPTRAN II Test was accomplished by 3 methods.

I Aircraft

An aircraft with 2 people, pilot and monitor, with radiation detection equipment, was assigned the duties to fly over the test area to determine that the area was clear of unauthorized personnel prior to release, and to monitor the radioactive plume after release.

The aircraft was able to detect the plume immediately after the release and follow the plume downwind approximately 20 miles reporting radiation readings for about 2 hours after release. The aircraft also helped to locate the monitors in vehicles into the plume.

II Grid Monitors

Six vehicles were used by radiation monitors to start sampling equipment on the grid network, three on the 13000-foot arc, two on Highway 28 and one in the Mud Lake-Monteview area telemetering stations.

These grid monitors were to position themselves in the radiation plume, report radiation levels and to sample the plume with mobile equipment. Their positions were recommended by the Control Personnel using wind data, and verified by the aircraft and the monitors themselves. After plume passage, the grid monitors collected the samples and secured the grid.

III Telemetry Stations

Seven telemetry stations were located off-site in the grid area; two weather stations reporting wind speed and direction and five radiation monitoring stations capable of reporting direct radiation and sampling the air and reporting activity levels. Three of the five radiation monitoring stations observed the plume and reported the activity observed.

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| OFFICE ▶ | HSHP BWM | | | | | |
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| DATE ▶ | 5/3/66 | | | | | |